STAFF REPORT

To: Honorable Mayor and Members of Town Council

Through: David L. Corliss, Town Manager

From: Mark Marlowe, P.E., Director of Castle Rock Water
Roy Gallea, P.E., Engineering Manager
Erin Evans, P.E., Project Manager

Title: **Resolution Approving a Services Agreement between the Town of Castle Rock and Consor Engineering for the Plum Creek Pipeline Central Well Field to PCWPF Project** *[Located parallel to East Plum Creek through central Castle Rock, CO]*
Project Number: 250044

Executive Summary

Castle Rock Water (CRW) staff requests approval of a resolution (***Attachment A***) approving a Services Agreement (***Exhibit 1***) with Consor Engineering (Consor) for the Plum Creek Pipeline Central Well Field to Plum Creek Water Purification Facility (PCWPF) engineering and design services. The Consor Engineering proposed fee is $390,676. This fee includes design services to upsize the existing Plum Creek Raw Water Return Pipeline from an existing 16-inch diameter to an equivalent 30-inch diameter to meet renewable water capacity needs to PCWPF. An evaluation of environmental considerations, an alignment study, and coordination for the anticipated Burlington and Northern Santa Fe (BNSF) railroad crossing are included in Consor's scope. The full scope of services to be completed by Consor is detailed in the proposal included in *Exhibit 1*. Consor's rate and fee schedule is also an attachment to the agreement.

Consor shall undertake the work upon execution of the agreement and shall complete the work by Summer 2025. A project location map is provided in an attachment (***Attachment B).***

Estimated Project Budget

Engineering	$ 390,676
Construction - Estimated	$ 11,000,000
Construction Phase Engineering - Estimated	$1,000,000
Land Acquisition* - Estimated	$ 90,000
Estimated Project Total	$12,480,676

**One alignment selection goal will be to remain in Town owned property where feasible.*

Notification and Outreach Efforts

CRW Staff will evaluate the need for public outreach based on final design location and the level of impact to the public. At this time, no public meetings are included in the scope of work. In the event land acquisition is determined necessary, staff will return to Council for consideration of Eminent Domain Authorization.

History of Past Town Council, Boards & Commissions, or Other Discussions

Castle Rock Water staff presented this item to the Castle Rock Water Commission at their meeting held on August 28, 2024, and the Castle Rock Water Commission voted 6 -0-1 (Brain Gaddie abstained) to recommend Town Council approval of the Resolution as presented.

Discussion

The Plum Creek Raw Water Return Pipeline brings water from the Plum Creek Diversion Structure and Castle Rock Reservoir No. 1 (CRR1) in Sedalia and alluvial wells through town to PCWPF as a critical water supply to the treatment facility. This pipeline is currently 30-inches from Sedalia to the Central Well Field near North Meadows Drive, then continues as 16-inches from the Central Well Field to PCWPF.

Castle Rock Water is currently designing and implementing an expansion of PCWPF from 6 Million Gallons per Day (MGD) capacity to 12 MGD and Castle Rock Reservoir No. 1 and No. 2 (CRR2) upgrades that will increase our local raw water storage capacity from 240 Acre-Feet to 1,340 Acre-Feet. The approximately 11,000 foot stretch of existing 16-inch Plum Creek Raw Water supply line creates a bottleneck that limits the delivery of our stored renewable water from Sedalia to PCWPF if it is not upsized to an equivalent 30-inch to match current and future proposed upgrades to the Town's water treatment and supply systems.

A Request for Qualifications (RFQ) was advertised on Bidnet to procure qualified consultants for the 2024 on-call professional services for various Castle Rock Water Capital Improvement Projects. A project specific Request for Proposal (RFP) to assist the Town with pipeline upsizing design services was then sent to six of the pre-qualified consultants for this project. The following table shows the fee proposals received from four of the consulting firms:

Consulting Firm	**Total Cost**
AE2S	$395,524
Consor Engineering	$390,676
Forsgren	No Proposal
Dewberry Engineers	No Proposal
Providence Infrastructure	$446,951
Burns & McDonnell	$499,656

Consor Engineering was chosen by the selection committee to perform the design services for this project, and staff has determined the price provided is reasonable and the consultant's

proposal demonstrated the greatest value for this project. Some of the consultants that were invited to propose on this project could not fit this work into their current project loads.

Budget Impact

The Consor proposal fee is $390,676. Staff requests an additional $39,068 (Town-managed 10% contingency) be authorized for a total project authorization of $429,744. The project will be funded from the account shown below.

Account Name	Account Number	Amount Requested	Contingency Requested	2024 Budget
PC Central Well Field	211-4375-443.76-63	$390,676	$39,068	$1,700,000

Staff Recommendation

Staff recommends Town Council approval of the resolution awarding the Services Agreement for Plum Creek Pipeline Central Well Field to PCWPF design services to Consor Engineering in the amount of $390,676 plus a Town-managed 10% contingency in the amount of $39,068, for a total authorization of $429,744.

Proposed Motion

“I move to approve the Resolution as introduced by title.”

Alternative Motions

“I move to approve the resolution as introduced by title, with the following conditions: (list conditions).

“I move to continue this item to the Town Council meeting on _____ date to allow additional time to (list information needed).”

Attachments

Attachment A: Resolution
Exhibit 1: Agreement
Attachment B: Location Map